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AMENDMENTS TO THE CLAIMS:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

CLAIMS 1-6. (Canceled)

7. (New) An evaporator tube for a sea water desalination system, which is formed of a steel that is sea water resistant and at the same time acid resistant, and which has a wall thickness between 0.1 mm and 0.5 mm.
8. (New) The evaporator tube in accordance with Claim 7, being formed of steel having material number 1.4565S in accordance with DIN EN 10 088-2.
9. (New) The evaporator tube in accordance with Claim 7, having a wall thickness between 0.2 mm and 0.3 mm.
10. (New) The evaporator tube in accordance with Claim 7, being formed of a sheet metal and produced by welding.
11. (New) The evaporator tube in accordance with Claim 7, wherein a tube end of the evaporator tube is connected with a tube bottom consisting of a same steel type, in particular by welding.
12. (New) The evaporator tube in accordance with Claim 7, wherein the cross-section of the evaporator tube differs from a circular shape.

13. (New) The evaporator tube in accordance with Claim 8, wherein the cross-section of the evaporator tube differs from a circular shape.
14. (New) The evaporator tube in accordance with Claim 9, wherein the cross-section of the evaporator tube differs from a circular shape.
15. (New) The evaporator tube in accordance with Claim 10, wherein the cross-section of the evaporator tube differs from a circular shape.
16. (New) The evaporator tube in accordance with Claim 11, wherein the cross-section of the evaporator tube differs from a circular shape.